

The Patent Office Concept House Cardiff Road Newport South Wales NP10 8QQ

PRIORITY DOCUMENT

SUBMITTED OR TRANSMITTED IN COMPLIANCE WITH RULE 17.1(a) OR (b)

REC'D 2 3 SEP 2003

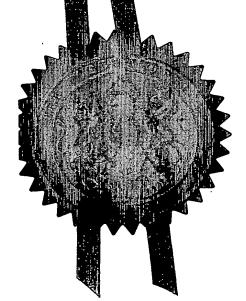
I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (1) of the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein.

I also certify that the attached copy of the request for grant of a Patent (Form 1/77) bears a correction, effected by this office, following a request by the applicant and agreed to by the Comptroller-General.

In accordance with the Patents (Companies Re-registration) Rules 1982, if a company named in this certificate and any accompanying documents has re-registered under the Companies Act 1980 with the same name as that with which it was registered immediately before re-registration save for the substitution as, or inclusion as, the last part of the name of the words "public limited company" or their equivalents in Welsh, references to the name of the company in this certificate and any accompanying documents shall be treated as references to the name with which it is so re-registered.

In accordance with the rules, the words "public limited company" may be replaced by p.l.c., plc, P.L.C. or PLC.

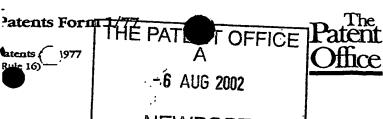
Re-registration under the Companies Act does not constitute a new legal entity but merely subjects the company to certain additional company law rules.



Signed

Technical Hongrey

Dated 18 August 2003



Request for grant of a Gatent

See the notes on the back of this form. You can also get n explanatory leaflet from the Patent Office to belp ou fill in this form)

06AUG02 E738724-1 D02893 P01/7700 0.00-0218160.0 The Patent Office

> Cardiff Road Newport . Gwent NP9 1RH

Your reference

2078

Patent application number (The Patent Office will fill in this part)

0218160.0

- 6 AUG 2002

Full name, address and postcode of the or of each applicant (underline all surnames)

CAVITY PROTECTIONSYSTEMS LTD Rogale Microwave Ovens Ltd. 261 Commercial Road Portsmouth

Hampshire

PO1 4BP

8439812001 Patents ADP number (if you know it)

If the applicant is a corporate body, give the

country/state of its incorporation

847136900

Title of the invention

Oven Liner

Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

NIGEL BROOKS CPA

HILL HAMPTON EAST MEON PETERSFIELD HAMPSHIRE

GU32 10N

Patents ADP number (if you know it)

463001

If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number (if you know it)

Date of filing (day / montb / year)

NA

NA NA NA

If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing (day / montb / year)

Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

- a) any applicant named in part 3 is not an inventor, or
- there is an inventor who is not named as an applicant, or
- c) any named applicant is a corporate body. See note (d))

no

atents Form 1/77 Ente e number of sheets for any of the following items you are filing with this form. Do not count copies of the same document Continuation sheets of this form 0 Description Claim(s) 0 Abstract Drawing(s) 0. If you are also filing any of the following, state how many against each item. 0 Priority documents Translations of priority documents Statement of inventorship and right 0 to grant of a patent (Patents Form 7/77) 0 Request for preliminary examination and search (Patents Form 9/77) 0 Request for substantive examination (Patents Form 10/77) Any other documents (please specify) I/We request the grant of a patent on the basis of this application. .1.

Warning

.2. Name and daytime telephone number of

person to contact in the United Kingdom

lfter an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be probibited or restricted under Section 22 of the Patents Act 1977. You vill be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the Inited Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting vritten permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the Inited Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

Signature

NIGEL BROOKS CPA

Notes

- 2) If you need help to fill in this form or you have any questions, please contact the Patent Office on 0645 500505.
- Write your answers in capital letters using black ink or you may type them.
- ;) If there is not enough space for all the relevant details on any part of this form, please continue on a separate sheet of paper and write "see continuation sheet" in the relevant part(s). Any continuation sheet should be attached to this form.
- 1) If you have answered 'Yes' Patents Form 7/77 will need to be filed.
- Once you have filled in the form you must remember to sign and date it.
- For details of the fee and ways to pay please contact the Patent Office.

Date

05/08/02

(01730) 823647

OVEN LINER

The present invention relates to an oven liner, in particular a liner for a microwave oven.

In commercial microwave ovens, which are more heavily used than domestic microwave ovens, spits of food can become deposited around the oven. Unless these are scrupulously cleaned off at the end of the day, they can build up to the extent that they desiccate and cause arcing and/or other damage. Subsequent repairs can be expensive.

Lightweight, disposable oven liners have been proposed. However, such a liner is of little practical use in a heavily used commercial oven.

The object of the present invention is to provide an improved microwave oven liner.

According to the invention there is provided a microwave oven liner comprising:

a roof, a floor, a back and two sides,
 all of food grade plastics material and of sufficient rigidity for automatic washing, the
 whole being sized to fit removably in a microwave oven.

Normally:

5

10

20

- 25 the roof will be shorter at the front, which is open than the floor, to allow air to circulate for steam withdrawal from the oven, and
 - the roof will be apertured for withdrawal of circulated air.

Preferably, the aperturing of the roof will be a series of holes acting as a coarse filter of spat food.

A particular feature of the preferred embodiment is an upstanding lip across the front of the floor, to retain spilt liquid.

Conveniently, the outside corners between the roof and the other panels and the floor and the other panels are chamfered or rounded to allow ready insertion of the liner into the oven without interference with oven corner seals.

5

Whilst the liner can be of sheet bent and adhered together, it is preferably an injection moulding.

Conveniently the plastics material of the liner is transparent or translucent.

The preferred liner is of polypropylene.

To help understanding of the invention, a specific embodiment thereof will now be described by way of example and with reference to the accompanying drawings, in which:

Figure 1 is a perspective view of a conventional microwave oven;

Figure 2 is a similar view of a liner of the invention sized to fit in the oven.

Referring to the drawings, a conventional microwave oven 1 has a glass panelled door 2 (shown open) with a cavity 3 lined with steel side and back walls 4, a ceramic floor 5 and a thin plastics moulding roof 6. A gap 7 is provided at the front between the door and the roof, whilst a further aperture 8 is provided in the roof. These are for air circulation by a non-shown fan. A silicon seal 9 seals the floor to the side walls. Non-shown microwave emitters and stirrers are provided above the roof and below the floor.

25

30

20

15

A liner 11 of the invention is an injection moulding of approximately 5mm thick elements, namely:

a roof 12,

a floor 14,

a back 15 and

two sides 16.

The moulding is of food grade polypropylene, such that the liner can be washed in a commercial dishwasher.

The liner is sized to be a sliding fit in the oven. Due to its modest wall thickness, it reduces the capacity of the oven by a small amount only, yet is sufficiently rigid for washing.

The roof is shorter 17 at the front than the floor to allow air circulation.

Further, the roof is apertured, also for air circulation, with a series of small c. 4mm bores 18 registering with the roof aperture 8.

5

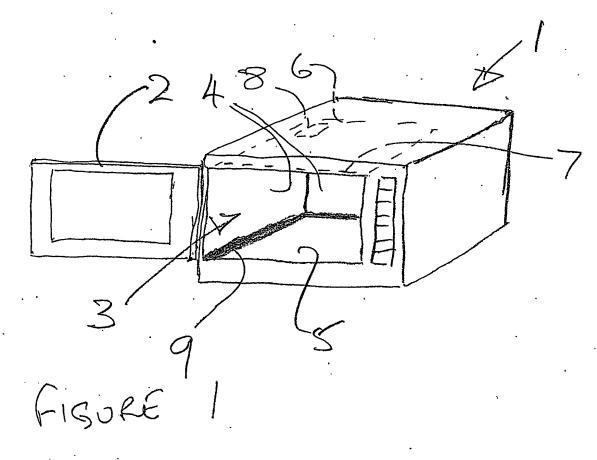
10

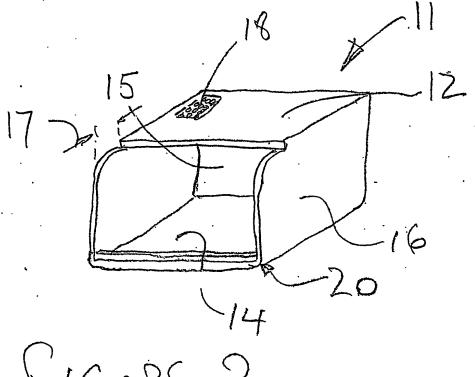
15

A lip 19 is provided across the front of the floor to retain split liquid.

The external corners 20 are chamfered to clear the silicone seal 9 for instance.

Whilst it might have been be expected that the liner would de-grade the cooking performance of the oven, we have surprisingly found that no appreciable loss of performance is experienced when the liner is of 5mm thick, food grade polypropylene.





FIGORE 2

THE PATIENT OFFICE
THE PATIENT OFFICE
TO AUG 2003
THE PATIENT OFFICE

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☑ BLACK BORDERS
☑ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
M FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
OCCUPATION COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
☐ LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
OTHER:

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.